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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application;

Listing of Claims:

- (previously presented) An isolated nucleic acid encoding a protein comprising the amino acid sequence of SEQ ID NO:8.
- 2. (currently amended) An isolated nucleic acid encoding a polypeptide comprising a fragment of SEQ ID NO:8, wherein the fragment being at loast 10% of the length of SEQ ID NO:8, wherein the polypeptide has cytidine deaminase activity.
- 3. (previously presented) An isolated nucleic acid comprising the nucleotide sequence of nucleotides 80 to 676 of SEO ID NO:7.
- (previously presented) An isolated nucleic acid comprising a nucleotide sequence complementary to nucleotides 80 to 676 of SEO ID NO:7.
- 5. 8. (cancelled)
- 9. (original) An expression vector comprising the nucleic acid of claim 1.
- 10. (original) An expression vector comprising the nucleic acid of claim 2.
- (original) An expression vector comprising the nucleic acid of claim 3. 11.
- 12. (original) An expression vector comprising the nucleic acid of claim 4.
- 13. (cancelled)

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(original) A cultured host cell comprising the expression vector of claim 9.

(original) A cultured host cell comprising the expression vector of claim 10.

(original) A cultured host cell comprising the expression vector of claim 11.

17. (original) A cultured host cell comprising the expression vector of claim 12.

18. - 33. (cancelled)

- 34. (currently amended) An isolated nucleic acid comprising the nucleotide of (a) SEQ-ID NO:9, (b) SEQ ID NO:10, er (c) SEQ ID NO:35 or a sequence complementary to SEQ ID NO:35.
- 35. (currently amended) An isolated nucleic acid comprising consisting of the a nucleotide sequence selected from the group consisting of (a) SEQ ID NO:11, (b) SEQ ID NO:12, (c) SEQ ID NO:13, (d) SEQ ID NO:14, or (e) SEQ ID NO:15, (f) SEQ ID NO:9, (g) SEQ ID NO:10, and (h) a sequence complementary to one of (a) through (g).
- (currently amended) An isolated nucleic acid comprising consisting of the sequence of:
 (a) SEQ ID NO:9, or
 - (b) a sequence complementary to the full length of SEQ ID NO:9.
- 37. (currently amended) An isolated nucleic acid e-mprising consisting of a continuous sequence of over 20 nucleotides buses that hybridizes to a probe-consisting of:
 - (a) nucleotides 1 to 1118 of SEQ ID NO: 9, in 0.9% NaCl at 75°C, or
- (b) a sequence complementary to nucleotides 1 to 1118 of SEQ ID NO:9, in 0.9% NaCl at 75%.
- 38. 49. (cancelled)

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50 (currently amended) An isolated nucleic acid encoding a polypeptide having a cytidine deaminase activity, wherein the nucleic acid:

- (i) encodes a polypeptide fragment of SEQ ID NO: 8, wherein the fragment has cytidine deaminase activity and comprises comprising at least 70% of the length of the amino acid sequence of SEO ID NO:8;
- (ii) encodes a polypeptide that is at least [[80%]] 95% identical to the amino acid sequence of SEO ID NO:8:
- (iii) comprises a nucleotide sequence that is at least [[80%1] 95% identical to the coding sequence of SEQ ID NO:7; or
- (iv) hybridizes to a probe the sequence of which consists of the coding sequence of SEO ID NO:7, in 0.9% NaCl at [[45°C]] 75°C.
- 51. (currently amended) The nucleic acid of claim 50, wherein the nucleic acid encodes a polypeptide comprising a fragment of SEQ ID NO:8, the fragment being at least 80% of the length of the amino acid sequence of SEQ ID NO:8, and having cytidine deaminase activity.
- 52. (currently amended) The nucleic acid of claim 50, wherein the nucleic acid encodes a polypeptide comprising a fragment of SEO ID NO:8, the fragment being at least 90% of the length of the amino acid sequence of SEQ ID NO:8 and having cytidine deaminase activity.
- (cancelled)
- 54. (previously presented) The nucleic acid of claim 50, wherein the nucleic acid encodes a polypeptide that is at least 95% identical to SEQ ID NO:8.
- 55. (cancelled)
- 56. (previously presented) The nucleic acid of claim 50, wherein the nucleic acid comprises a nucleotide sequence that is at least 95% identical to the coding sequence of SEO ID NO:7.

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(currently amended) The nucleic acid of claim 50, wherein the nucleic acid hybridizes to a probe the sequence of which consists of the coding sequence of SEO ID NO:7, in 0.9% NaCl at [[55°C]] 75°C.

58. - 59. (cancelled)

- 60. (currently amended) An isolated nucleic acid eomprising consisting of a continuous nucleotide sequence of over 20 bases nucleotides of:
- (i) a nucleotide sequence that encodes a polypeptide fragment of SEO ID NO:8, wherein the fragment has cytidine deaminase activity and is the fragment being at least 70% of the length of SEO ID NO:8; or
- (ii) a nucleotide sequence that encodes a polypeptide that is at least 80% identical to the amino acid sequence of SEO ID NO.8:
- (iii) a nucleotide sequence that is at least 80% identical to the coding sequence of SEO ID NO:7: or
- [[(iv)]] (ii) a nucleotide sequence complementary to any one of (i) through (iii). wherein the nucleic acid hybridizes to a probe consisting of a sequence that encodes a polypeptide of SEQ ID NO:8 nucleic acid the sequence of which consists of any one of (i) through (iv); in 0.9% NaCl at 75°C.
- An isolated nucleic acid that encodes a polypeptide 61. (previously presented) consisting of the amino acid sequence of SEO ID NO: 8.
- 62. (previously presented) An isolated nucleic acid that is complementary to the nucleic acid of claim 61.
- 63 (currently amended) An isolated nucleic acid comprising consisting of a sequence of over [[201] 50 continuous bases nucleotides of nucleotides 80 to 676 of SEO ID NO.7.

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64. (currently amended) An isolated nucleic acid comprising consisting of a nucleotide sequence complementary to over [[20]] 50 continuous bases nucleotides of nucleotides 80 to 676 of SEO ID NO:7.

65. (previously presented) to claim 50 An expression vector comprising a nucleic acid according

66. (previously presented) according to claim 65.

A cultured host cell comprising an expression vector

67. (previously presented) to claim 51.

An expression vector comprising a nucleic acid according

68. (previously presented) according to claim 67.

A cultured host cell comprising an expression vector

69. (previously presented) to claim 52.

An expression vector comprising a nucleic acid according

70. (previously presented)

A cultured host cell comprising an expression vector

according to claim 69.

71. - 72. (cancelled)

73. (previously presented) to claim 54.

An expression vector comprising a nucleic acid according

74. (previously presented) according to claim 73.

A cultured host cell comprising an expression vector

75, - 76. (cancelled)

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77. (previously presented) An expression vector comprising a nucleic acid according to claim 56.

78 (previously presented) A cultured host cell comprising an expression vector according to claim 77.

79. (previously presented) An expression vector comprising a nucleic acid according

to claim 57.

(previously presented) A cultured host cell comprising an expression vector according to claim 79.

81. - 86. (cancelled)

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87. (previously presented) An expression vector comprising a nucleic acid according to claim 61.

88. (previously presented) A cultured host cell comprising an expression vector according to claim 87.

89. - 94. (cancelled)

- 95. (currently amended) A method of making a polypeptide with cytidine deaminase activity that (i) is a fragment of SEO ID NO:8, and comprises at least 70% of the length of the amino acid sequence of SEQ ID NO:8, or (ii) is at least [[80%]] 95% identical to the amino acid sequence of SEQ ID NO:8, the method comprising culturing a cell according to claim 66.
- 96. (currently amended) A method of making a polypeptide with cytidine deaminase activity that comprises a fragment of SEO ID NO:8, the fragment being at least 80% of the length of the amino acid sequence of SEQ ID NO:8 and having cytidine deaminase activity, the method comprising culturing a cell according to claim 68.

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- 97. (currently amended) A method of making a polypeptide with cytidine deaminase activity that comprises a fragment of SEO ID NO:8, the fragment being at least 90% of the length of the amino acid sequence of SEQ ID NO:8 and having cytidine deaminase activity, the method comprising culturing a cell according to claim 70.
- 98. (cancelled)
- 99 (currently amended) A method of making a polypeptide with cytidine dearninase activity that is at least 95% identical to the full length of the amino acid sequence of SEQ ID NO:8, the method comprising culturing a cell according to claim 74.
- 100. (cancelled)
- 101. (previously presented) A method of making a polypeptide consisting of the amino acid sequence of SEQ ID NO: 8, the method comprising culturing a cell according to claim 88.
- 102. (new) An isolated nucleic acid consisting of the nucleotide sequence of:
 - (a) SEO ID NO:10; or
 - (b) a sequence complementary to SEO ID NO:10.
- 103. (new) An isolated nucleic acid consisting of the nucleotide sequence of (a) SEQ ID NO:11; or
 - (b) a sequence complementary to SEQ ID NO:11.
- 104. (new) An isolated nucleic acid consisting of the nucleotide sequence of:
 - (a) SEQ ID NO:12; or
 - (b) a sequence complementary to SEQ ID NO:12.
- 105. (new) An isolated nucleic acid consisting of the nucleotide sequence of:
 - (a) SEO ID NO:13; or
 - (b) a sequence complementary to SEO ID NO:13.

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- 106. (new) An isolated nucleic acid consisting of the nucleotide sequence of:
 - (a) SEQ ID NO:14; or
 - (b) a sequence complementary to SEQ ID NO:14.
- 107. (new) An isolated nucleic acid consisting of the nucleotide sequence of:
 - (a) SEO ID NO:15; or
 - (b) a sequence complementary to SEO ID NO:15.
- 108. (new) An isolated nucleic acid consisting of over 50 continuous nucleotides of the nucleotide sequence of:
 - (a) SEQ ID NO:11; or
 - (b) a sequence complementary to SEQ ID NO:11.
- 109. (new) An isolated nucleic acid consisting of over 20 continuous nucleotides of the nucleotide sequence of:
 - (a) SEQ ID NO:12; or
 - (b) a sequence complementary to SEQ ID NO:12.
- 110. (new) An isolated nucleic acid consisting of over 20 continuous nucleotides of the nucleotide sequence of:
 - (a) SEO ID NO:13; or
 - (b) a sequence complementary to SEQ ID NO:13.
- 111. (new) An isolated nucleic acid consisting of over 20 continuous nucleotides of the nucleotide sequence of:
 - (a) SEQ ID NO:14; or
 - (b) a sequence complementary to SEQ ID NO:14.
- 112. (new) An isolated nucleic acid comprising SEQ ID NO:10, wherein the nucleic acid encodes a peptide having cytidine deaminase activity.

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(new) An isolated nucleic acid comprising a sequence of over 50 continuous nucleotides of nucleotides 80 to 676 of SEQ ID NO:7, wherein the continuous nucleotides of SEQ ID NO:7 encode a polypeptide having cytidine deaminase activity.

114. (new) A method of making a polypeptide comprising the amino acid sequence of SEQ ID NO:8, the method comprising culturing a cell according to claim 14.